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L14 and optimiz$6	4

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Set Name	Query	Hit Count	Set Name
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DB=USPT,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

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L15	L14 and optimiz$6	4	L15
L14	L12 and search engine$1	8	L14
L13	L12 and constraint descriptor$1	0	L13
L12	((707/516)!.CCLS.)	87	L12
L11	L8 and (translat$4 same query)	158	L11
L10	L9 and (translat$4 same logical expression$1)	0	L10
L9	L8 and logical expression$1	24	L9
L8	search engine$1	2347	L8
L7	L6 and search engine$1	3	L7
L6	L5 and logical expression$1	8	L6
L5	(query same SQL same translat$4)	281	L5
L4	5913214.pn.	2	L4
L3	6102969.pn.	2	L3
L2	5826258.pn.	3	L2
L1	6052693.pn.	2	L1

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 24 of 24 returned.

☐ 1. Document ID: US 6356936 B1

L9: Entry 1 of 24   File: USPT   Mar 12, 2002

US-PAT-NO: 6356936
DOCUMENT-IDENTIFIER: US 6356936 B1

TITLE: Relevance clause for computed relevance messaging

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image |

☐ 2. Document ID: US 6351747 B1

L9: Entry 2 of 24   File: USPT   Feb 26, 2002

US-PAT-NO: 6351747
DOCUMENT-IDENTIFIER: US 6351747 B1

TITLE: Method and system for providing data to a user based on a user's query

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image |

☐ 3. Document ID: US 6341277 B1

L9: Entry 3 of 24   File: USPT   Jan 22, 2002

US-PAT-NO: 6341277
DOCUMENT-IDENTIFIER: US 6341277 B1

TITLE: System and method for performance complex heterogeneous database queries using a single SQL expression

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | | KWIC | Draw Desc | Image |

☐ 4. Document ID: US 6339832 B1

L9: Entry 4 of 24   File: USPT   Jan 15, 2002

US-PAT-NO: 6339832
DOCUMENT-IDENTIFIER: US 6339832 B1

TITLE: Exception response table in environment services patterns

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | | KWIC | Draw Desc | Image |

☐ 5. Document ID: US 6332163 B1

US-PAT-NO: 6332163
DOCUMENT-IDENTIFIER: US 6332163 B1

TITLE: Method for providing communication services over a computer network system

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | | KWIC | Draw Desc | Image |

□   6.   Document ID: US 6326962 B1

L9: Entry 6 of 24   File: USPT   Dec 4, 2001

US-PAT-NO: 6326962
DOCUMENT-IDENTIFIER: US 6326962 B1

TITLE: Graphic user interface for database system

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | | KWIC | Draw Desc | Image |

□   7.   Document ID: US 6289382 B1

L9: Entry 7 of 24   File: USPT   Sep 11, 2001

US-PAT-NO: 6289382
DOCUMENT-IDENTIFIER: US 6289382 B1

TITLE: System, method and article of manufacture for a globally addressable interface in a communication services patterns environment

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | | KWIC | Draw Desc | Image |

□   8.   Document ID: US 6263362 B1

L9: Entry 8 of 24   File: USPT   Jul 17, 2001

US-PAT-NO: 6263362
DOCUMENT-IDENTIFIER: US 6263362 B1

TITLE: Inspector for computed relevance messaging

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | | KWIC | Draw Desc | Image |

□   9.   Document ID: US 6263328 B1

L9: Entry 9 of 24   File: USPT   Jul 17, 2001

US-PAT-NO: 6263328
DOCUMENT-IDENTIFIER: US 6263328 B1

TITLE: Object oriented query model and process for complex heterogeneous database queries

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | | KWIC | Draw Desc | Image |

☐ 10. Document ID: US 6256664 B1

US-PAT-NO: 6256664
DOCUMENT-IDENTIFIER: US 6256664 B1

TITLE: Method and apparatus for computed relevance messaging

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | | KWIC | Draw Desc | Image |

☐ 11. Document ID: US 6256623 B1

US-PAT-NO: 6256623
DOCUMENT-IDENTIFIER: US 6256623 B1

TITLE: Network search access construct for accessing web-based search services

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | | KWIC | Draw Desc | Image |

☐ 12. Document ID: US 6205441 B1

US-PAT-NO: 6205441
DOCUMENT-IDENTIFIER: US 6205441 B1

TITLE: System and method for reducing compile time in a top down rule based system using rule heuristics based upon the predicted resulting data flow

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | | KWIC | Draw Desc | Image |

☐ 13. Document ID: US 6182067 B1

US-PAT-NO: 6182067
DOCUMENT-IDENTIFIER: US 6182067 B1

TITLE: Methods and systems for knowledge management

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | | KWIC | Draw Desc | Image |

☐ 14. Document ID: US 6151610 A

US-PAT-NO: 6151610
DOCUMENT-IDENTIFIER: US 6151610 A

TITLE: Document display system using a scripting language having container variables setting document attributes

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | | KWIC | Draw Desc | Image |

□ 15. Document ID: US 6099575 A

US-PAT-NO: 6099575
DOCUMENT-IDENTIFIER: US 6099575 A

TITLE: Constraint validity checking

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | | KWIC | Draw Desc | Image |

□ 16. Document ID: US 6021405 A

US-PAT-NO: 6021405
DOCUMENT-IDENTIFIER: US 6021405 A

TITLE: System and method for optimizing database queries with improved performance enhancements

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | | KWIC | Draw Desc | Image |

□ 17. Document ID: US 5966126 A

US-PAT-NO: 5966126
DOCUMENT-IDENTIFIER: US 5966126 A

TITLE: Graphic user interface for database system

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | | KWIC | Draw Desc | Image |

□ 18. Document ID: US 5940843 A

US-PAT-NO: 5940843
DOCUMENT-IDENTIFIER: US 5940843 A

TITLE: Information delivery system and method including restriction processing

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | | KWIC | Draw Desc | Image |

□ 19. Document ID: US 5913215 A

US-PAT-NO: 5913215
DOCUMENT-IDENTIFIER: US 5913215 A

TITLE: Browse by prompted keyword phrases with an improved method for obtaining an initial document set

20.   Document ID: US 5870464 A

L9: Entry 20 of 24   File: USPT   Feb 9, 1999

US-PAT-NO: 5870464
DOCUMENT-IDENTIFIER: US 5870464 A

TITLE: Intelligent information routing system and method

21.   Document ID: US 5864871 A

L9: Entry 21 of 24   File: USPT   Jan 26, 1999

US-PAT-NO: 5864871
DOCUMENT-IDENTIFIER: US 5864871 A

TITLE: Information delivery system and method including on-line entitlements

22.   Document ID: US 5822747 A

L9: Entry 22 of 24   File: USPT   Oct 13, 1998

US-PAT-NO: 5822747
DOCUMENT-IDENTIFIER: US 5822747 A

TITLE: System and method for optimizing database queries

23.   Document ID: US 5819255 A

L9: Entry 23 of 24   File: USPT   Oct 6, 1998

US-PAT-NO: 5819255
DOCUMENT-IDENTIFIER: US 5819255 A

TITLE: System and method for database query optimization

24.   Document ID: US 5802518 A

L9: Entry 24 of 24   File: USPT   Sep 1, 1998

US-PAT-NO: 5802518
DOCUMENT-IDENTIFIER: US 5802518 A

TITLE: Information delivery system and method

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Search DL | query optimization AND constraints | → >

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Results 1 - 20 of 200   short listing

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1 **Logic-based approach to semantic query optimization** 100%
Upen S. Chakravarthy , John Grant , Jack Minker
ACM Transactions on Database Systems (TODS) June 1990
Volume 15 Issue 2
> The purpose of semantic query optimization is to use semantic
> knowledge (e.g., integrity constraints) for transforming a query into a
> form that may be answered more efficiently than the original version.
> In several previous papers we described and proved the correctness of
> a method for semantic query optimization in deductive databases
> couched in first-order logic. This paper consolidates the major results
> of these papers emphasizing the techniques and their applicability for
> optimizing rel ...

2 **A method for automatic rule derivation to support semantic query** 100%
optimization
Michael Siegel , Edward Sciore , Sharon Salveter
ACM Transactions on Database Systems (TODS) December 1992
Volume 17 Issue 4
> The use of inference rules to support intelligent data processing is an
> increasingly important tool in many areas of computer science. In
> database systems, rules are used in semantic query optimization as a
> method for reducing query processing costs. The savings is dependent

on the ability of experts to supply a set of useful rules and the ability
of the optimizer to quickly find the appropriate transformations
generated by these rules. Unfortunately, the most useful rules are not
always th ...

3 Semantic query optimization in Datalog programs (extended abstract) 97%
Alon Y. Levy , Yehoshua Sagiv
Proceedings of the fourteenth ACM SIGACT-SIGMOD-SIGART symposium
on Principles of database systems May 1995

4 Stochastic query optimization in distributed databases 97%
P. E. Drenick , E. J. Smith
ACM Transactions on Database Systems (TODS) June 1993
Volume 18 Issue 2
Many algorithms have been devised for minimizing the costs associated
with obtaining the answer to a single, isolated query in a distributed
database system. However, if more than one query may be processed
by the system at the same time and if the arrival times of the queries
are unknown, the determination of optimal query-processing strategies
becomes a stochastic optimization problem. In order to cope with such
problems, a theoretical state-transition model is presented that treats
the s ...

5 Quick and incomplete responses 96%
Chung-Dak Shum
Proceedings of the second international conference on Information and
knowledge management December 1993

6 The impact of logic programming on databases 95%
John Grant , Jack Minker
Communications of the ACM March 1992
Volume 35 Issue 3

7 Query Optimization in Database Systems 95%
Matthias Jarke , Jurgen Koch
ACM Computing Surveys (CSUR) June 1984
Volume 16 Issue 2

8 Materialized view maintenance and integrity constraint checking 94%
Kenneth A. Ross , Divesh Srivastava , S. Sudarshan
ACM SIGMOD Record , Proceedings of the 1996 ACM SIGMOD international
conference on Management of data June 1996
Volume 25 Issue 2

9 Optimization techniques for queries with expensive methods 94%

Joseph M. Hellerstein
ACM Transactions on Database Systems (TODS) June 1998
Volume 23 Issue 2
> Object-relational database management systems allow knowledgeable
> users to define new data types as well as new methods (operators) for
> the types. This flexibility produces an attendant complexity, which
> must be handled in new ways for an object-relational database
> management system to be efficient. In this article we study techniques
> for optimizing queries that contain time-consuming methods. The focus
> of traditional query optimizers has been on the choice of join methods
> and orders; selec ...

10 Federated database systems for managing distributed,   92%
heterogeneous, and autonomous databases
Amit P. Sheth , James A. Larson
ACM Computing Surveys (CSUR) September 1990
Volume 22 Issue 3
> A federated database system (FDBS) is a collection of cooperating
> database systems that are autonomous and possibly heterogeneous. In
> this paper, we define a reference architecture for distributed database
> management systems from system and schema viewpoints and show
> how various FDBS architectures can be developed. We then define a
> methodology for developing one of the popular architectures of an
> FDBS. Finally, we discuss critical issues related to developing and
> operating an FDBS.

11 Modelling concepts for reasoning about access to knowledge   92%
Jonathan J. King
Proceedings of the 1980 workshop on Data abstraction, databases and
conceptual modeling June 1980
> There is growing agreement about the usefulness of putting semantic
> database constraints into explicit form that can be manipulated by
> various database management programs. Indeed, this is a prerequisite
> for building intelligent database mediators. These are programs that
> perform the task of a good database analyst: to pose the most
> effective and easily processed queries to help solve a problem.
> Semantic query optimization is a technique to exploit semantic ...

12 Set query optimization in distributed database systems   92%
Bezalel Gavish , Arie Segev
ACM Transactions on Database Systems (TODS) August 1986
Volume 11 Issue 3
> This paper addresses the problem of optimizing queries that involve set
> operations (set queries) in a distributed relational database system. A
> particular emphasis is put on the optimization of such queries in
> horizontally partitioned database systems. A mathematical
> programming model of the set query problem is developed and its
> NP-completeness is proved. Solution procedures are proposed and

computational results presented. One of the main results of the
computational experiments is that, ...

13 Semantic query processing in object-oriented databases using   92%
deductive approach
S. C. Yoon , I. Y. Song , E. K. Park
Proceedings of the fourth international conference on Information and
knowledge management December 1995

14 Predicate migration   92%
Joseph M. Hellerstein , Michael Stonebraker
ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD international
conference on Management of data June 1993
Volume 22 Issue 2
> The traditional focus of relational query optimization schemes has been
> on the choice of join methods and join orders. Restrictions have
> typically been handled in query optimizers by “predicate
> pushdown” rules, which apply restrictions in some random order
> before as many joins as possible. These rules work under the
> assumption that restriction is essentially a zero-time operation.
> However, today's extensible and object-oriented database systems
> allow users to define time-consumi ...

15 On saying “Enough already!” in SQL   90%
Michael J. Carey , Donald Kossmann
ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international
conference on Management of data June 1997
Volume 26 Issue 2
> In this paper, we study a simple SQL extension that enables query
> writers to explicitly limit the cardinality of a query result. We examine
> its impact on the query optimization and run-time execution
> components of a relational DBMS, presenting two approaches—a
> Conservative approach and an Aggressive approach—to
> exploiting cardinality limits in relational query plans. Results obtained
> from an empirical study conducted using DB2 demonstrate the benefits
> of the SQL extensio ...

16 Query processing in a distributed data base   90%
Diane Jantz , E. A. Unger , R. McBride , Jacob Slonim
Proceedings of the 1983 ACM conference on Personal and small computers
December 1983
> The current research on optimizing algorithms for queries in distributed
> data base networks is presented. An identification of additional factors
> which add cost and time to processing of a query both at a node and in
> the transporting of data along a link in the network is given. The idea
> of a user topology is presented as the basis for a query optimization
> algorithm and the effects of a user's query constraints on the user

17 Optimization of join operations in horizontally partitioned database   90%
systems
Arie Segev
ACM Transactions on Database Systems (TODS) March 1986
Volume 11 Issue 1
> This paper analyzes the problem of joining two horizontally partitioned
> relations in a distributed database system. Two types of semijoin
> strategies are introduced, local and remote. Local semijoins are
> performed at the site of the restricted relation (or fragment), and
> remote semijoins can be performed at an arbitrary site. A
> mathematical model of a semijoin strategy for the case of remote
> semijoins is developed, and lower bounding and heuristic procedures
> are proposed. The results of comp ...

18 Managing periodically updated data in relational databases   90%
Avigdor Gal , Jonathan Eckstein
Journal of the ACM (JACM) November 2001
Volume 48 Issue 6
> Recent trends in information management involve the periodic
> transcription of data onto secondary devices in a networked
> environment, and the proper scheduling of these transcriptions is
> critical for efficient data management. To assist in the scheduling
> process, we are interested in modeling *data obsolescence*, that is, the
> reduction of consistency over time between a relation and its replica.
> The modeling is based on techniques from the field of stochastic
> processes, and provides several ...

19 Processing queries for first-few answers   90%
Roberto J. Bayardo , Daniel P. Miranker
Proceedings of the fifth international conference on Information and
knowledge management November 1996

20 Reformulating query plans for multidatabase systems   90%
Chun-Nan Hsu , Craig A. Knoblock
Proceedings of the second international conference on Information and
knowledge management December 1993